

## Product datasheet for **SC125273**

### Lysozyme (LYZ) (NM\_000239) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lysozyme (LYZ) (NM_000239) Human Untagged Clone
Tag:	Tag Free
Symbol:	Lysozyme
Synonyms:	LYZF1; LZM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_000239 edited  
 ATGAAGGCTCTCATTGTTCTGGGGCTTGCCTCCTTTCTGTTACGGTCCAGGGCAAGGTC  
 TTTGAAAGGTGTGAGTTGGCCAGAAGCTCTGAAAAGATTGGGAATGGATGGCTACAGGGGA  
 ATCAGCCTAGCAAAGTGGATGTGTTGGCCAAATGGGAGAGTGGTTACAACACACAGAGCT  
 ACAAACACTACAATGCTGGAGACAGAAGCACTGATTATGGGATATTTTCAGATCAATAGCCGC  
 TACTGGTGAATGATGGCAAAACCCAGGAGCAGTTAATGCCTGTCATTTATCCTGCAGT  
 GCTTTGCTGCAAGATAACATCGCTGATGCTGTAGCTTGTGCAAAGAGGGTTGTCCGTGAT  
 CCACAAGGCATTAGAGCATGGGTGGCATGGAGAAATCGTTGTCAAACAGAGATGTCCTG  
 CAGTATGTTCAAGGTTGTGGAGTGTA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_000239 unedited  
 CCCGTTCAAATTTTGAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAAACCT  
 AGCAGTCAACATGAAGGCTCTCATTGTTCTGGGGCTTGCCTCCTTTCTGTTACGGTCCA  
 GGGCAAGGTCTTTGAAAGGTGTGAGTTGGCCAGAAGCTCTGAAAAGATTGGGAATGGATGG  
 CTACAGGGGAATCAGCCTAGCAAAGTGGATGTGTTGGCCAAATGGGAGAGTGGTTACAA  
 CACACGAGCTACAAACTACAATGCTGGAGACAGAAGCACTGATTATGGGATATTTTCAGAT  
 CAATAGCCGCTACTGGTGAATGATGGCAAAACCCAGGAGCAGTTAATGCCTGTCATTT  
 ATCCTGCAGTGCCTTTGCTGCAAGATAACATCGCTGATGCTGTAGCTTGTGCAAAGAGGGT  
 TGTCCGTGATCCACAAGGCATTAGAGCATGGGTGGCATGGAGAAATCGTTGTCAAACAG  
 AGATGTCCGTCAGTATGTTCAAGGTTGTGGAGTGAATCCAGAATTTTCTTCTTCAGC  
 TCATTTTGTCTCTCACATTAAGGGAGTAGGAATTAAGTGAAGGTCACACTACCATTA  
 TTTCCCTTCAAACAAATAATATTTTACAGAAGCAGGAGCAAAATATGGCCTTTCTTCT  
 AAGAGATAAATGTTCACTAATGTGGTTATTTTATTAAGCCTACAACATNTTCAGTT  
 TGCANATAGAATAACTGGTGAATTTACCTAAAACCTTGGTTATCAAATACATCTC  
 CAGTACATTCGGTCTTTTTTTTTTTGAGACAGTCTCGCTCTGTGCCCCAGCTGGAGTG  
 CAGTGGCGCAATCTCGGCTCACTGCAACCTNCACTCCCGGGTTCACGCCATTCTNCTGC  
 CTCACCTNCCGAGTAGCTGGGATTACCGCGCCCGN



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<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000239
<b>Insert Size:</b>	1500 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_000239.1</a></u> , <u><a href="#">NP_000230.1</a></u>
<b>RefSeq Size:</b>	1487 bp
<b>RefSeq ORF:</b>	447 bp
<b>Locus ID:</b>	4069
<b>UniProt ID:</b>	<u><a href="#">P61626</a></u>
<b>Cytogenetics:</b>	12q15
<b>Domains:</b>	lys
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene encodes human lysozyme, whose natural substrate is the bacterial cell wall peptidoglycan (cleaving the beta[1-4]glycosidic linkages between N-acetylmuramic acid and N-acetylglucosamine). Lysozyme is one of the antimicrobial agents found in human milk, and is also present in spleen, lung, kidney, white blood cells, plasma, saliva, and tears. The protein has antibacterial activity against a number of bacterial species. Missense mutations in this gene have been identified in heritable renal amyloidosis. [provided by RefSeq, Oct 2014]